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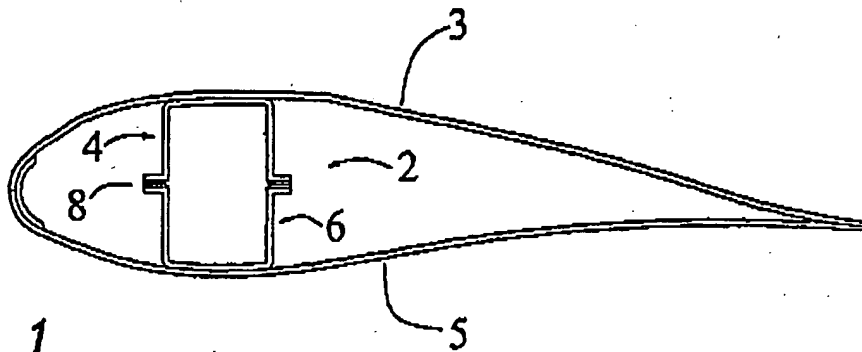
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(54) Title: A BLADE FOR A WIND TURBINE AND A METHOD OF ASSEMBLING LAMINATED PROFILES FOR A BLADE



(57) **Abstract:** THE INVENTION RELATES TO A BLADE FOR USE ON A WIND TURBINE AND A METHOD OF ASSEMBLING LAMINATED PROFILES (3, 5) FOR A BLADE FOR A WIND TURBINE. THE DEVELOPMENT TOWARDS INCREASINGLY LARGER BLADES REQUIRES, THAT THE TECHNOLOGY OF MANUFACTURE IS REVIEWED AND NOVEL METHODS APPLIED, IN PARTICULAR WITH REGARD TO ASPECTS REGARDING STRENGTH AND WEIGHT. IT IS AN OBJECT OF THE INVENTION TO PROVIDE A BLADE THAT CAN BE MANUFACTURED MORE ACCURATELY AND WITH LARGE UNIFORMITY WITH REGARD TO STRENGTH, FROM BLADE TO BLADE, AND WHICH IS LIGHTER THAN PRIOR ART BLADES. NOVEL ASPECTS OF THE INVENTION REGARDS THAT THE WING COMPRISES A BEAM PART (2) WHICH COMPRISES AT LEAST A FIRST PART (4) AND AT LEAST A SECOND PART (6), SAID FIRST PART (4) COMPRISES AT LEAST ONE BODY PART (12) CONNECTED TO AT LEAST ONE ASSEMBLY FACE (10) AND TO AT LEAST ONE ABUTMENT FLANGE (14) SAID SECOND PART (6) COMPRISES AT LEAST ONE BODY PART (18) CONNECTED TO AT LEAST ONE ASSEMBLY FACE (16) AND TO AT LEAST ONE ABUTMENT FLANGE (20); WHEREIN THE PARTS (4, 6) ARE ADJUSTED BY USE OF MEANS FOR HEIGHT ADJUSTMENT (8) AND CONNECTED TO EACH OTHER AT THE ASSEMBLY FACES (10, 16); AND WHEREIN THE LAMINATED PROFILES (3, 5) ARE ASSEMBLED AROUND THE BEAM PART (2) AND GLUED AGAINST RESPECTIVE ABUTMENT FLANGES (14, 20). HEREBY IT IS OBTAINED THAT THE HEIGHT OF THE BEAM PART CAN BE ADJUSTED IN ACCORDANCE WITH THE THICKNESS OF THE LAMINATED PROFILES, SUCH THAT THE GLUED JOINT REACHES THE DESIRED THICKNESS. THEREBY AN AMOUNT OF GLUE IS SAVED, SINCE EXTRA DOSAGE IS AVOIDED, WHEREBY THE BLADE BECOMES LESS EXPENSIVE AND LIGHTER.

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